



# Zhitao Group

ZHITAO GROUP

Industrial Power supply

## product specifications

# S-35

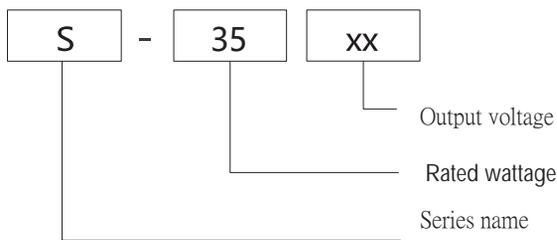
- Product Category: 35W Single Output Power Supply
- Version No.: ZTAO3.0
- Release date: 1st May 2025



### product overview

S-35-XX series products for a 35W chassis-type industrial power supply, the output voltage including 5V/12V/24V/36V/48V, etc., can be adapted to different load application requirements to meet most of the industrial applications, self-cooling heat dissipation, as well as a full range of protection, to ensure that this series of products of high reliability and high stability.

### product naming



### product characteristics

- The AC range input is switched via the switch
- Protection type: short circuit/overload/overvoltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3-year warranty



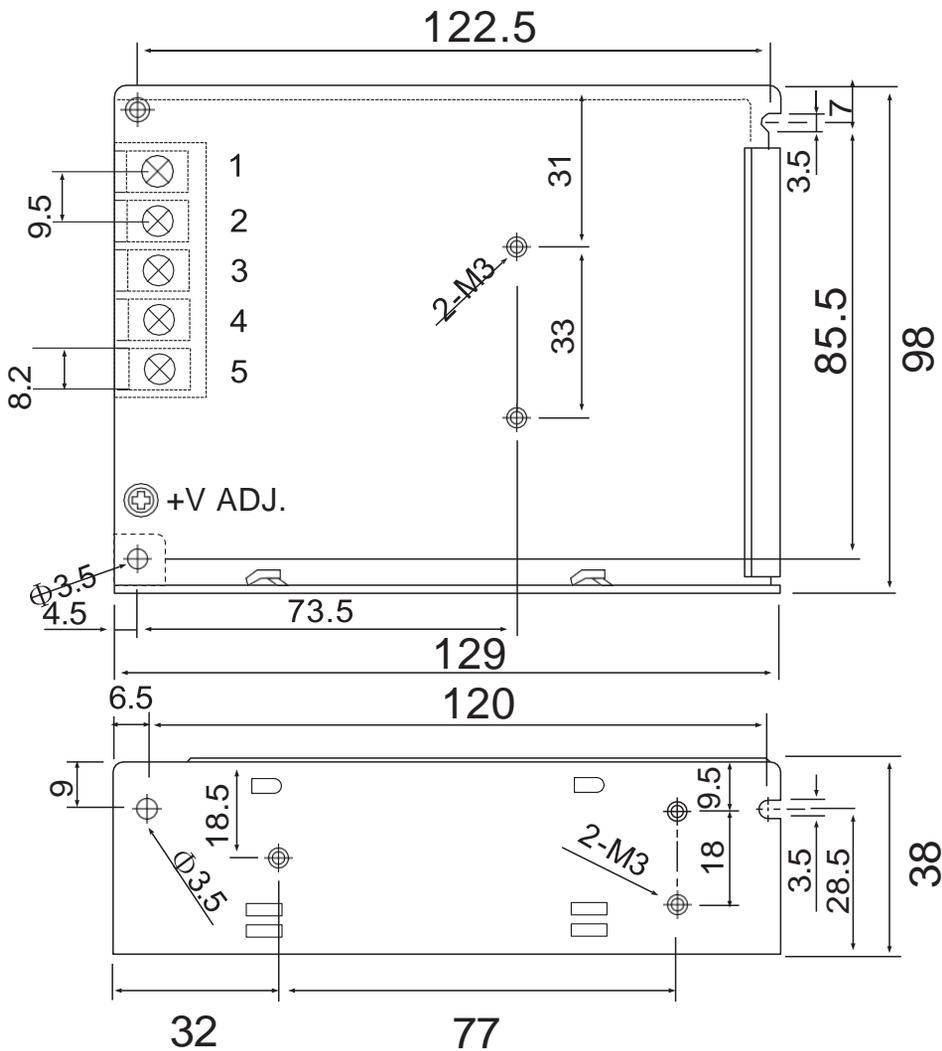
### areas of application

Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

Electrical Specifications

Model		S-35-5	S-35-12	S-35-15	S-35-24	S-35-36	S-35-48
Output	DC output voltage	5V	12V	15V	24V	36V	48V
	Rated current	7A	3A	2.4A	1.5A	1A	0.8A
	Current range	0~7A	0~3A	0~2.4A	0~1.5A	0~1A	0~0.8A
	Rated power	35W	36W	36W	36W	36W	38.4W
	Ripple & Noise (Max)	80mVp-p	80mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-p
	voltage adjustment range	4.5~5.5V	10.2~13.8V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V
	voltage accuracy	±1%	±1%	±1%	±1%	±1%	±1%
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	start-up & rise time	1000ms,30ms/230VAC      1000ms,30ms/115VAC(at full load)					
Holding time	50mS/230VAC;15mS/115VAC (at full load)						
Input	Input Voltage	85~132VAC/ 170~264VAC selectable by switch			240~370VDC(switc on 230VAC)		
	Input frequency	50~60HZ					
	Efficiency	77%	80%	80%	81%	82%	83%
	Input current	0.8A/115VAC    0.4A/230VAC					
	Leakage current	< 1mA/240VAC					
Protection	overload protection	125~150% of rated power Protected Mode: Outputs are switched off and can be restored automatically when abnormal conditions are removed					
	Overvoltage protection	5.9~7.3V	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V
Environment	Operating temperature	-20°C ~+65°C					
	Operating humidity	20~90%RH No condensation					
	Storage temperature/humidity	-40~+80°C 10~95%RH, no condensation					
	Vibration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each					
Security	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC					
	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH					
Others	Product dimensions	129*98*38mm (L*W*H)					
	Packaging	0.35kg/pcs					
Remarks		<ol style="list-style-type: none"> <li>All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified.</li> <li>Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors at the end of a 12-inch twisted pair cable, measured at 20MHZ bandwidth.</li> <li>Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio.</li> <li>Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load</li> <li>Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load</li> <li>Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time.</li> <li>When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres</li> </ol>					

Outline and mounting dimensions (mm)



Terminal Pin No. Assignment

Pin No	Assignment
1	AC/N(DC+)
2	AC/L(DC-)
3	FG ⊕
4	DC OUTPUT -V
5	DC OUTPUT +V

Pinout	Function
L	AC LINE
N	AC NETURAL
⊕	EARTH
-V	DC output -
+V	DC output +

Screw:M4\*9.5  
Torque:22Kgf.cm(2..... 2N.m)

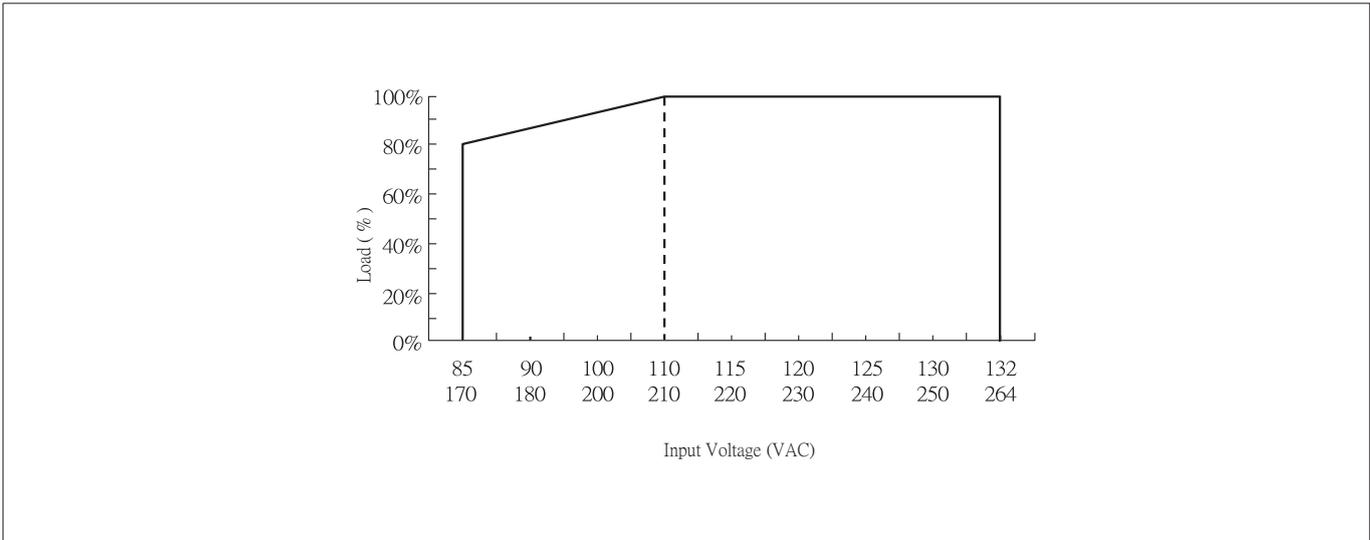
Screw:M4\*9.5  
Torque:22Kgf.cm(2..... 2N.m)

8-M3 Customer system  
mounting holes mounting  
screws:M3  
Installation torque: 8Kgf.cm (0.8N.m)  
screws into the housing is not more  
than 3mm  
Remarks:

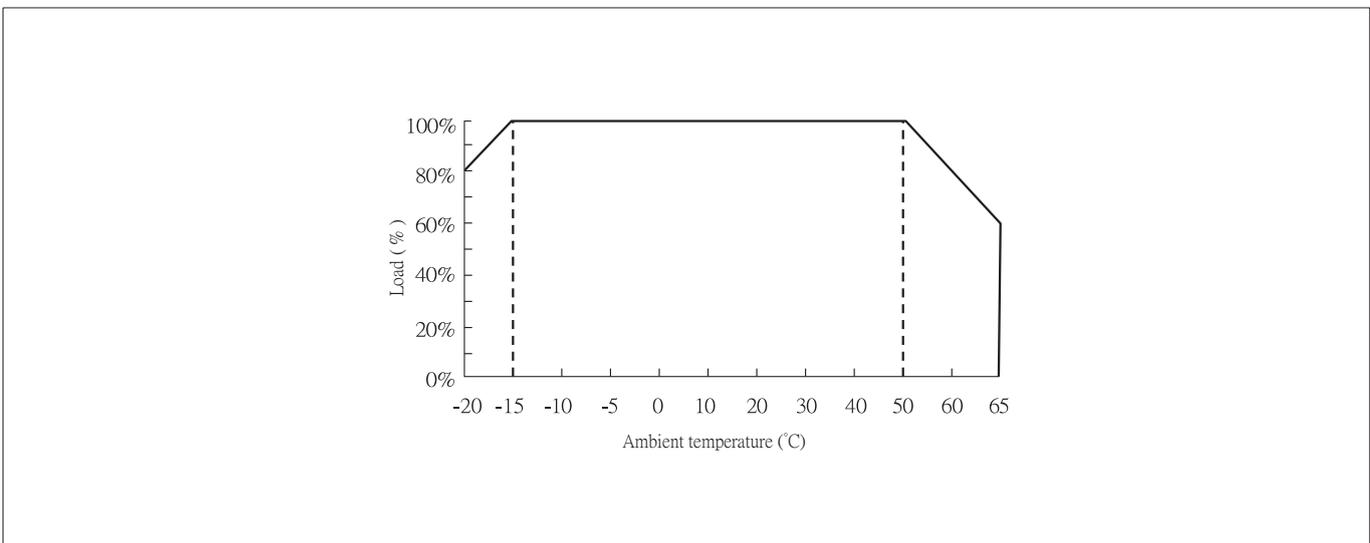
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

### Characteristic Curve

#### Input Voltage VS Output Load



#### Ambient Temperature VS Output Load



Note:

- 1.If you need more detailed test data, please contact our technical support to get the application notes of the corresponding products.
- 2.This product is suitable for use in a natural air convection environment, if used in a closed environment, please contact our technical support staff.